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ABSTRACT

This study was designed to determine the predictability of an officer's career decision and to evaluate relationships between career intent, various demographic, environmental and attitudinal factors, and career status. Survey data were collected from individuals before they entered active duty, and annually, through five years of active military service. The scores designed to predict career status were determined from each individual's yearly survey responses. Generally, the relationship between career status and the scores based on responses prior to commissioning were quite low; however, there was a definite increase in prediction after the subjects experienced active duty. The largest increase in predictability occurred during the first two years of active duty. This seems to indicate a plateau in the subject's attitude toward the military career. Offer of Air Force opportunities such as education, training, and Regular commissions might be more effective at this point than at the time of commissioning. In addition, from an economical standpoint, the Air Force might realize considerable savings in training costs by sending those junior officers most likely to remain on active duty to the more expensive educational and training programs. The Career Intent Score was the measurement device most predictive of future career status, although correlations were only moderate. (Author/DB)

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AFHRL-TR-73-1

AIR FORCE HUMAN RESOURCES LABORATORY

DEVELOPMENT AND VALIDATION OF SCORES TO PREDICT OFFICER CAREER STATUS

By

Faye Shenk

PERSONNEL RESEARCH DIVISION
Lackland Air Force Base, Texas 78236

March 1973

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AIR FORCE SYSTEMS COMMAND

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FOREWORD

This research was completed under Project 7719, Air Force Personnel System Development on Selection, Assignment, Evaluation, Quality Control, Retention, Promotion, and Utilization; Task 771907, Analysis of Major Factors Related to Career Decisions and Retention.

This is part of a continuing evaluation concerning a sample of officers who entered the Air Force as second lieutenants during 1963 and 1964. This historical study is an evaluation of reported career intentions and various demographic, environmental, and attitudinal factors which influence career selection or nonselection. Other reports of this study include PRL-TR-65-2, AD-613 333, *USAF Officer Career Decisions: Predictability of Initial Career Intent;* PRL-TR-67-10, AD-664 037, *USAF Officer Career Intent after First Year of Active Duty;* AFHRL-TR-69-33, AD-703 728, *Career Indications among Junior Officers;* AFHRL-TR-70-49, AD-722 408, *Changes in Career Intent During Initial Tour of Active Duty.*

This report has been reviewed and is approved.

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Commander

ABSTRACT

During 1963 a long-term study of officer input, from the principal Air Force commissioning sources, was initiated. This study was designed to determine the predictability of an officer's career decision and to evaluate relationships between career intent, various demographic, environmental and attitudinal factors, and career status. This report presents the development and validation of various scores designed to predict career status.

Survey data were collected from individuals before they entered active duty, and annually, through five years of active military service. The scores designed to predict career status were determined from each individual's yearly survey responses. Generally, the relationship between career status and the scores based on responses prior to commissioning were quite low; however, there was a definite increase in prediction after the subjects experienced active duty. The largest increase in predictability occurred during the first two years of active duty. This seems to indicate a plateau in the subject's attitude toward the military career. Offer of Air Force opportunities such as education, training, and Regular commissions might be more effective at this point, than at the time of commissioning. In addition, from an economical standpoint, the Air Force might realize considerable savings in training costs by sending those junior officers most likely to remain on active duty to the more expensive educational and training programs. The Career Intent Score was the measurement device most predictive of future career status although correlations were only moderate.

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DEVELOPMENT AND VALIDATION OF SCORES TO PREDICT OFFICER CAREER STATUS

I. INTRODUCTION

During 1963 a long-term study of officer input from the principal Air Force commissioning sources was initiated (Ewing & Alvord, 1965). This study was designed to determine the predictability of an officer's career decision and to evaluate relationships between career intent, various demographic, environmental and attitudinal factors, and career status. One of the aims of the study was to answer such questions as: Can career decision or career status be predicted? If so, at what point? This report presents the development of various scores which were applied to the survey data and the validation of these scores with career status as of December 1969.

II. PROCEDURE

In the first phase of this study, a Precommission Survey was developed to determine variables which might contribute to the career attitudes of officer trainees and newly commissioned officers. The survey was divided into three parts: The first asks for demographic data; the second requires a statement of career-intent; and the third contains scales on which the subject indicates degree of individual job expectations and extent to which these expectations might be achieved in the Air Force (Job Importance-Job Possibility Scale[1]). To determine factors which contribute to career decisions during the period of active duty, the Active Duty Survey was developed. While the Precommission Survey was primarily related to college training and activities, certain demographic items from the survey (*e.g.*, marital status, family attitudes) were included in the follow-up Active Duty Survey to provide continuity. In addition, the demographic section of the Active Duty Survey includes questions relating to the respondent's present status, such as his current military assignment, military background, and job satisfaction. The career-intent section and the Job Importance-Job Possibility Scale appear in the Precommission and Active Duty Surveys. Examples of these surveys were published in previous technical reports (Ewing & Alvord, 1965; Shenk 1970).

The Precommission Survey was completed by 5,609 trainees to be commissioned during 1963 through 1964 as second lieutenants. Officer trainees were selected from the following sources: Air Force Reserve Officer Training Corps (AFROTC), Officer Training School (OTS),[2] Officer Training School - Airman Education and Commissioning Program (OTS-AECP), Officer Candidate School (OCS) and the Military Academies (AFA, USMA, and USNA). After approximately one year, the subjects participating in the precommission phase were matched with the Uniform Officer Record (UOR) Active Duty File to determine date of entry onto active duty and to obtain current assignment locations. Questionnaires were mailed directly to the subjects and were returned by them to the Personnel Research Division. The original sample received an Active Duty Survey annually through five years of military service. Results of these analyses for the period prior to commissioning through five years of active duty, using expressed career-intent as the intermediate criterion, have been compiled and reported (Ewing, 1967; Shenk, 1969, 1970).

Career status was determined for these subjects by matching with the UOR Active Duty and Loss Files as of December 1969. Subjects were divided into the following career status categories: Career, Noncareer, Inactive, and Unknown. The Career[3] group includes subjects still on active duty as of December 1969; the Noncareer group consists of subjects with a date of loss between 1963 and 1969; the Inactive group includes cases which were in a transition state on the UOR Files; and the Unknown group represents subjects for which initial data were missing (such as AFSN) and for which no match was made on the UOR Files.

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[1] The original Job Importance-Job Possibility Scale was developed and utilized (Harding & Bottenberg, 1962; Harding, Downey, & Bottenberg, 1963) in studies of OTS graduates and USAFIT trained officers. One statement, "Achieving leadership in my field," was added to Harding's scales.

[2] Now called School of Military Sciences--Officer (SMS-O) Training.

[3] Seventy-two percent of this group have active duty commitment dates between 1970 and 1976. However, since they have extended beyond the normal obligated tour, they were designated as "career" for this report.

III. RESULTS AND DISCUSSION

In evaluating the initial survey data, several scores to predict career status were designed. Technical aspects of the development of these measures and related statistics are presented in the appendices. Scores have been previously analyzed using an intermediate criterion of expressed career intent (Ewing & Alvord, 1965; Ewing, 1967). This report presents data relating to the validation of these measurements with a criterion of intermediate career status (career/noncareer) as of December 1969.

Career Intent Score

One measure, a Career Intent Score, was developed for both the Precommission and the Active Duty surveys. The Precommission Career Intent Score[4] was derived from assigned weights of plus 1 or minus 1 to items which related positively or negatively to the career-intent statement. The Active Duty Career Intent Score was derived in the same manner based on the first year active duty survey responses. The Active Duty Career Intent Score key was applied to the first through the fifth years survey responses. Means, standard deviations, and validities of the Career Intent Scores and the in-or-out of service criterion (career status) are presented in Table 1. These data are presented for the total sample by year of duty. Data relating to the individual sources of commission are presented in Appendix I.

The overall correlation between the Precommission Career Intent Score and the career status criterion was .20 which is relatively low. Correlations between the Precommission Career Intent Score and the criterion for the various sources ranged from .01 for USNA to .24 for OTS (Table 2 in Appendix II). The correlations are small for practical purposes; however, the score was computed six years prior to determination of career status and is primarily based on college activities and selected demographic factors, prior to actual experience in the Air Force. The relationship between these two factors (Precommission Career Intent Score and career status) is greater for the OTS and AFROTC sources which represent the largest input to the Air Force.

An increase in prediction of career status was achieved with the Active Duty Career Intent Score for succeeding survey response data. The Career Intent Score obtained for subjects completing the first year active duty survey correlated .33 with career/noncareer status as of December 1969. This initial increase in prediction (beyond the precommission point) was consistent for all sources of commission. The relationship between these two factors (Active Duty Career Intent Score and career/noncareer status) for the total sample further increased to .40 for the second year survey data; .41 for the third year survey data; .43 for the fourth year survey data; and decreased to .27 for the fifth year survey respondents. The decrease in relationship at the fifth year point may be due to restriction in range since the majority of the subjects had completed their normal tour of duty and elected to remain on active duty or leave the service.

One important factor concerning the relationships found between Active Duty Career Intent Score and career status should be pointed out. There is very little increase in prediction after the second year of active duty. It appears that a plateau is reached and further application of this particular score beyond that point does not significantly increase prediction. This seems to indicate a definite time period in which development of an officer's attitude and skill would be most beneficial. After one or two years of active duty, the offer of such benefits as training, education, or a Regular commission might have more influence than prior to commissioning. These findings are somewhat supported in evaluating the expressed career intent of these subjects with their career status as of December 1969 (Shenk, 1972). In the case of the career-intent statement, the largest increase in prediction was obtained after the subject had been on active duty for one year (correlation between precommission career-intent statement and career status was .24; correlation between intent after one year of active duty and career status was .41). While the Precommission Career Intent Score shows little promise for determining the actual career status of officers after four years it appears that the Active Duty Career Intent Score provides a more effective measure, which could be used to predict career status for junior officers.

Retainability Score

The Retainability Score is based on item responses to the Job Importance-Job Possibility Scale. This scale consists of 23 statements representing factors relating to job satisfaction/dissatisfaction. The subject is required to rate each statement on a five-point scale: First indicating the

[4] The Precommission Career Intent Score was applied only to the Precommission Survey data.

importance of the statement to his job satisfaction, and second, indicating the possibility of obtaining the reward or working condition while in the Air Force. The scoring technique, developed by Downey, Harding, and Bottenberg (1964), is based upon the proportion of career officers and ex-officers responding to each combination of items. Means, standard deviations and validities of the Retainability Score, and the criterion of career status for the total sample are presented in Table 3.

It was hypothesized that officers who were career minded would tend to show significantly higher scores than those who were not so inclined, indicating that they had attitudes and expectations somewhat similar to known career officers. As shown in Table 3 there are slight differences between means for the career and noncareer groups with the career group having the higher means, except for the precommission phase. While this trend is in the direction predicted, the differences between means are too slight to be of practical significance. Another factor which becomes apparent is the overall consistent (though slight) decrease in means for the two criterion groups for each year of active duty.

The correlation between the Retainability Score, derived from the Precommission Survey data, and the criterion of career status was .08 for the total sample. The correlation between the Retainability Score and the criterion increased for each year of active duty, except the fifth year. For instance, the relationship between the Retainability Score for the first year active duty survey data and the criterion was .23; .28 for the second year survey data; .31 for the third year data; .38 for the fourth year data; and .28 for the fifth year data. While these correlations are not substantial in magnitude, it is evidenced again that there is very low prediction prior to commissioning and an apparent increase in prediction after the subjects have actually experienced Air Force service.

For comparative purposes, descriptive and correlational data on the Retainability Score for each source of commission are presented in Table 4.

Experimental Scores

Several other experimental scores[5] were generated from the Job Importance-Job Possibility Scale. These scores were derived from various combinations of weighted values, which were assigned to responses on the importance section and the possibility section. Means and Standard deviations for the Experimental Scores are presented in Table 5, Appendix II. The validities of these scores with career/noncareer status are given in Table 6. Of these measures, the Total Possibility, Positive Score, Possibility Motivators, and Retention Scores were the most predictive; however, none of the experimental measures correlated as highly with career status as the Career Intent Score. In analyzing these scores with the career-intent statement (Ewing & Alvord, 1965; Ewing, 1967), it was found that the service-oriented subjects considered the possibility of obtaining desired working conditions and rewards in the Air Force to be greater than necessary for their satisfaction, while the demands of the non-career-oriented subjects exceeded the possibility of obtaining job satisfaction in the service. Of the experimental measures, the Positive Score appeared to be the best predictor of expressed career intent. This score is also one of the best experimental predictors for career status in the early years of active duty. This score indicates that the importance of the item was rated higher than the possibility of attainment for that item. In correlating the Positive Score with career status, negative relationships were found indicating the noncareer subjects had rated the importance higher than the possibility of attainment for the factors. The Possibility Motivators Score is a measure based on Herzberg's (Herzberg, Mausner, & Snyderman, 1959) theory of motivators-dissatisfiers. Each of the items on the Job Importance-Job Possibility Scale were categorized according to this two-factor theory of work motivation (Table 7, Appendix II). The Possibility Motivators Score is merely the sum of the weighted responses on the possibility scale for items identified as motivators. This score had a low but positive relationship with career status; in other words, the career officers rated these items as having a higher achievement value in the Air Force than the noncareer officers. The Total Possibility Score is the sum of all the weighted responses on the Possibility Scale. This measure is also related positively to career status. The Retention Scores, which use different weights, also show a positive relationship with career status. In evaluating these measures, it was noticed that apparently various combinations of the possibility of achievement and the importance to the individual or the possibility of attainment alone are more predictive of career status than the

[5] A detailed explanation of these scores is presented in Appendix I.

importance factor alone. Validities of the experimental measures for each year of active duty for the total sample and for each source of commission are given in Tables 8 through 15 in Appendix II.

IV. SUMMARY AND CONCLUSIONS

One of the aims of this historical study of officer input was to determine if career status could be predicted. Survey data were collected on a sample of officers, before and during, their active military service tour. This report presents the validation of the various scores which were designed to predict career status.

Generally the relationships between career status and the scores based on the precommission survey data were not strong; however, there was a definite increase in prediction among the various measures after the subjects had completed one year of active duty. The Career Intent Score appears to be the best overall predictor. Although the correlation between the Precommission Career Intent Score and career status (.20) was somewhat low, the Active Duty Career Intent Score, based on responses made during the first year of active duty, correlated .33 with career/noncareer status. There was another increase in prediction at the second year point (.40) between these two factors. After the second year of active duty there was very little increase in relationship. Prediction of career status before entry to active duty is not as reliable as information obtained after the subject has completed one or two years of military service. This was also evidenced in evaluating the reliability and validity of the expressed career-intent of these subjects (Shenk, 1972). The validities of the Retainability Score, based upon empirical comparisons of career and noncareer officers, were rather low, but did show an increase for succeeding years of active duty.

Since several of these scores, particularly the Career Intent Score, appear to have a sizeable and significant relationship with the future career status of junior officers; their unique contribution and validity should be evaluated in the prediction of various training criteria. Such measures, combined with current operational selection tests (such as the Air Force Officer Qualifying Test), may prove useful in selecting those junior officers with definite career potential.

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APPENDIX I: DEVELOPMENT OF EXPERIMENTAL SCORES

Career Intent Score

Frequency and percentage distributions were obtained for responses for each item alternative on the Precommission Survey for the total group and for three career intent response categories (definitely career, uncertain, and noncareer). After preliminary review of these distributions, subjects from each procurement source were then divided into two groups, one for key development and one for cross-validation. The sample selected for key development was further subdivided into 12 subgroups based on the responses to the career-intent statement, a measure of the sureness of their responses, and whether they had prior service. After counting the number of cases in each subgroup, it was found that some of the 12 subgroups had an insufficient number of cases to be considered separately in the analyses. Therefore, in the final analysis, four subgroups were formed based on career intent and certainty or sureness of career decision excluding prior service. It was further noted that some of the frequencies for the four subgroups, particularly among the military academies, were quite small. As a result, the USMA, USNA, and AFA were treated as one source. Subgroup data were obtained for OTS, AFROTC, OCS, and the Military Academies. It was noted that the frequencies for the OCS source were quite small; however, it was decided not to combine the OCS subjects with another source since they formed a unique group (generally college non-graduates).

Final Composition of Subgroups for Developing Key

Subgroup	Attitude toward Career	and	Sureness of Decision
1	Favorable		Certain or probably won't change mind
2	Favorable		Might change mind
3	Uncertain or unfavorable		Certain or probably won't change mind
4	Uncertain or unfavorable		Might change mind

For each of the four subgroups and for all of the cases in the first half of the sample, a count of the number of cases choosing each alternative of the Precommission Survey items was obtained. Chi squares were computed for each item by source of commission for these four subgroups.

Based on the data, the most important factors influencing a positive or negative career decision were identified, and a Precommission Career Intent Key for the total sample was developed. Keying consisted of assigning a score of plus 1 or minus 1 to items which related positively or negatively to the career-intent statement.

Scores derived from the Precommission Career-Intent Key were cross-validated on the second half of the sample for each source of commission individually and all sources combined. The criterion score was the weight assigned to the response to the career-intent statement (definitely career = 2; most likely career, uncertain, or most likely not career = 1; definitely not career = 0). Correlations between the Precommission Career Intent Score and the career-intent statement for the various sources ranged from .39 for the USNA to .53 for the USMA, with an overall correlation for all sources combined of .44. Data relating to the Precommission Career Intent Score was presented by Ewing and Alvord (1965).

The Active Duty Career-Intent Score Key was developed in the same manner as the Precommission Career-Intent Score Key. The Active Duty Career-Intent Score Key, developed on the first year active duty survey, was applied to each succeeding year's survey data. Correlation between the Active Duty Career-Intent Score and the career-intent statement for subjects completing the first active duty survey ranged from .47 for OCS to .62 for OTS-AECP. Data for the Active Duty Career Intent Score was presented by Ewing (1967).

Retainability Score

A scoring technique developed in a previous study (Downey, Harding, & Bottenberg, 1964) was applied to the items contained in the Job Importance-Job Possibility Scale which appeared in each survey. The items were scored according to weights developed for each pair of items based on the proportion of

career officers and ex-officers responding to each combination. Weights varying from 1 to 0 were applied to all pairs of items on the Job Importance-Job Possibility Scale.[6] By summing the weights for each combination of responses, a Retainability Score was generated for each officer; the maximum score possible was 22.

Experimental Scores

Various experimental scores were generated for responses to the Job Importance-Job Possibility Scale. To obtain these experimental scores the following weighted values were first assigned to each alternative:

Alternative	Value	Importance Scale Response	Possibility Scale Response
a	1	Not important at all	No possibility at all
b	2	Somewhat below average in importance	Less than average possibility
c	3	Of average importance	Average possibility
d	4	Somewhat above average in importance	Better than average possibility
e	5	Extremely important	Very good possibility

In addition each of the items in the Job Importance-Job Possibility Scale was categorized according to Herzberg's (Herzberg, Mausner, & Snyderman, 1959) theory of motivators-dissatisfiers. Herzberg proposes a two-factor theory of work motivation in which factors which provide motivation are content factors involving achievement, recognition, work itself, responsibility, and advancement. The factors which inhibit motivation are termed context factors and involve company policy and administration, supervision, salary, interpersonal relations and working conditions. The content factors or motivators are necessary for motivation whereas the context factors will not increase motivation but must be met at a minimum level to prevent dissatisfaction. There were 10 items classified as motivators and 13 as dissatisfiers on the Job Importance-Job Possibility Scale. A complete listing of the scale items and their classification according to Herzberg's theory of motivation to work is given in Table 5, Appendix II.

Using the weighted values previously defined, the following experimental scores were generated for each subject.

	Experimental Scores
Importance Motivators	Sum of weighted responses on the importance scale for items identified as motivators
Importance Dissatisfiers	Sum of weighted responses on the importance scale for items identified as dissatisfiers
Possibility Dissatisfiers	Sum of weighted responses on the possibility scale for items identified as dissatisfiers
Possibility Motivators	Sum of weighted responses on the possibility scale for items identified as motivators
Difference IPM	Sum of weighted responses for items identified as motivators on the possibility scale subtracted from the same responses on the importance scale

[6]Weighted values were not computed for the item, "Achieving leadership in my field," which was added to the Harding Job Importance-Job Possibility Scale.

Experimental Scores (*Continued*)

Difference IPD	Sum of weighted responses for items identified as dissatisfiers on the possibility scale subtracted from the same responses on the importance scale
Total Motivators	Sum of weighted responses for all items on both the importance and possibility scale identified as motivators
Total Dissatisfiers	Sum of weighted responses for all items on both the importance and possibility scale identified as dissatisfiers
Total Score	Sum of weighted responses for each item on the possibility scale subtracted from the same responses on the importance scale
Negative Score	Sum of all negative item-pair scores; *i.e.*, the possibility weight was greater than the importance weight
Negative Frequency	The number of negative differences; *i.e.*, the number of times the possibility weight was greater than the importance weight
Zero Frequency	The number of zero differences; *i.e.*, the possibility and the importance weights were the same
Positive Score	Sum of all positive item-pair scores; *i.e.*, the importance weight was greater than the possibility weight
Positive Frequency	The number of positive differences; *i.e.*, the number of times the importance weight was greater than the possibility weight
Positive Plus Zero Frequency	The number of positive and zero differences; *i.e.*, the importance weight was greater or equal to the possibility weight
Positive Frequency Plus Negative Frequency	The number of positive and negative differences; *i.e*, the number of times the difference between the importance weight and the possibility weight were not 0
Total Importance	Sum of weighted responses for each item on the importance scale
Total Possibility	Sum of weighted responses for each item on the possibility scale

In addition, various *a priori* combinations of importance-possibility responses were generated to determine their usefulness in predicting retention. The generation of these scores involved assigning new values to combinations of the importance and possibility item responses so that a high value was assigned a response that was considered very important with a better than average or very good chance of attainment for that characteristic. To obtain the three Retention Scores (A, B, and C), the weighted values given below were first assigned to each alternative:

Weight	Importance Scale Response	Weight	Possibility Scale Response
Plus 4	Extremely important	Plus 2	Very good
Plus 3	Somewhat above average in importance	Plus 1	Better than average
Plus 2	Of average importance	Minus 0	Average
Plus 1	Somewhat below average in importance	Minus 1	Less than average
Plus 0	Not important at all	Minus 2	None at all

The Retention Scores are computed as described below:

Retention Score A	Sum of the importance weight times the possibility weight for each item pair
Retention Score B	Sum of importance weight squared times the possibility weight for each pair
Retention Score C	Sum of importance weight cubed times the possibility weight for each item pair

The Importance-Possibility Score is the sum of the weighted values given below for each pair of items on the Job Importance-Job Possibility Scale:

Weight	Importance Scale Responses	Possibility Scale Responses
4	Extremely important or somewhat above average in importance	Very good or better than average
3	Of average importance, below average in importance, or not important at all	Very good, better than average, or average
2	Extremly important or somewhat above average in importance	Less than average or none at all
1	Extremly important or somewhat above average in importance	Average
1	Of average importance, somewhat below average in importance, or not important at all	Less than average or none at all

Table 1. **Descriptive Statistics for Career Intent Scores and Career Status**

Career Intent Score by Survey Year	Career Status Group						Total		Career Status Criterion[a]		Total	Career Intent Score Validity
	Career			Noncareer								
	M	SD	N	M	SD	N	M	SD	M	SD	N	r
Precommission	5.31	12.31	2,986	.38	12.28	2,028	3.34	12.54	.60	.49	4,644	.20
First Year	6.05	17.65	2,388	− 6.43	18.28	1,817	.89	19.01	.57	.49	3,978	.33
Second Year	5.27	16.78	2,178	− 9.30	16.84	1,591	− .73	18.36	.58	.49	3,536	.40
Third Year	3.18	17.28	2,429	−11.86	15.24	1,612	−2.71	18.07	.60	.49	3,727	.41
Fourth Year	5.25	16.97	2,479	−10.79	14.40	1,266	− .10	17.94	.66	.47	3,545	.43
Fifth Year	2.50	16.41	2,607	− 8.58	11.59	480	.90	16.65	.88	.33	2,794	.27

Note. — The combined N of the Career and Noncareer groups will not be the same as the total sample. The total sample is based only on cases having scores for all measures. The data for the Career and Noncareer groups represents data for all subjects having a Career Intent Score.

[a]Criterion: Career weighted 1; noncareer weighted 0.

Table 2. **Means, Standard Deviations, and Validities of the Precommission and Active Duty Career Intent Scores for each Source of Commission**

Survey Year	Career Intent Score M	Career Intent Score SD	Criterion M	Criterion SD	N	r	Career Intent Score M	Career Intent Score SD	Criterion M	Criterion SD	N	r
			AFA						**USMA**			
Precommission	4.86	11.06	.69	.49	411	.17	.83	10.46	.63	.48	46	.05
First Year	10.26	15.85	.70	.46	392	.22	5.52	16.23	.66	.47	44	.20
Second Year	7.44	15.10	.71	.45	363	.24	6.55	16.52	.66	.47	44	.35
Third Year	2.58	15.39	.70	.46	340	.29	.36	15.47	.67	.47	42	.33
Fourth Year	2.72	15.86	.76	.43	327	.32	2.30	16.32	.73	.44	30	.03
Fifth Year	1.19	13.84	.83	.38	295	.35	2.37	11.00	.87	.34	30	.06
			OTS						**USNA**			
Precommission	2.17	12.37	.48	.50	1,289	.24	3.73	11.38	.65	.48	48	−.01
First Year	− 3.76	18.64	.49	.50	1,238	.27	4.40	16.57	.64	.48	47	.50
Second Year	− 5.72	17.68	.48	.50	1,056	.39	2.44	16.74	.67	.47	43	.51
Third Year	− 6.11	17.44	.50	.50	1,001	.43	.04	16.59	.67	.47	45	.52
Fourth Year	− 2.23	17.73	.60	.49	927	.48	.53	16.14	.76	.43	38	.41
Fifth Year	1.55	16.62	.83	.38	695	.42	− 3.84	12.97	.81	.39	37	.54
			OTS-AECP						**OCS**			
Precommission	11.31	10.40	.90	.30	118	.14	8.15	10.64	.80	.40	96	.18
First Year	9.81	16.84	.89	.31	121	.27	11.70	15.85	.80	.40	91	.33
Second Year	9.61	16.43	.93	.26	82	.27	10.75	15.74	.82	.38	80	.21
Third Year	8.98	17.06	.93	.26	82	.33	9.17	18.32	.84	.37	75	.27
Fourth Year	10.57	16.70	.92	.27	104	.42	13.44	15.63	.90	.31	77	.26
Fifth Year	6.25	14.95	.98	.14	95	.15	10.90	16.52	.97	.17	70	.31
			AFROTC						**AFROTC-Cat C**			
Precommission	4.14	12.81	.58	.49	2,282	.21	− 3.00	11.28	.88	.33	354	.11
First Year	.73	19.06	.56	.50	2,040	.32	− 2.60	21.73	.60	.49	5	.82
Second Year	− .64	18.52	.58	.49	1,861	.38	−11.71	17.90	.71	.45	7	.88
Third Year	− 2.60	18.32	.59	.49	1,972	.42	− 6.91	17.32	.83	.38	170	.10
Fourth Year	.07	18.13	.62	.48	1,811	.45	− 6.53	16.63	.87	.34	231	.19
Fifth Year	1.73	16.84	.89	.31	1,298	.24	− 8.92	15.94	.94	.24	274	.01

Table 3. **Descriptive Statistics for Retainability Score and Career Status**

Retainability Score by Survey Year	Career Status Group: Career M	Career SD	Career N	Noncareer M	Noncareer SD	Noncareer N	Total M	Total SD	Career Status Criterion[a] M	Career Status Criterion[a] SD	Total N	Retainability Score Validity r
Precommission	18.49	.73	2,782	18.66	.77	1,845	18.45	.75	.60	.49	4,644	.08
First Year	18.49	.72	2,291	18.13	.81	1,716	18.34	.78	.57	.49	3,878	.23
Second Year	18.43	.74	2,067	17.97	.85	1,490	18.24	.82	.58	.49	2,536	.28
Third Year	18.31	.76	2,292	17.77	.86	1,499	18.10	.84	.60	.49	3,727	.31
Fourth Year	18.32	.73	2,353	17.66	.90	1,205	18.09	.85	.66	.47	3,545	.37
Fifth Year	18.22	.78	2,467	17.50	.95	340	18.13	.83	.88	.33	2,794	.28

Note.— The combined N of the Career and Noncareer groups will not be the same as the total sample. The total sample is based only on cases having scores for all measures. The data for the Career and Noncareer groups represents data for all subjects having a Retainability Score.

[a]Criterion: Career weighted 1; noncareer weighted 0.

Table 4. **Means, Standard Deviations, and Validities of the Retainability Score for Each Source of Commission**

Survey Year	Retainability Score M	Retainability Score SD	Criterion M	Criterion SD	N	r	Retainability Score M	Retainability Score SD	Criterion M	Criterion SD	N	r
			AFA						**USMA**			
Precommission	18.45	.60	.69	.46	411	.10	18.30	.66	.60	.48	46	.04
First Year	18.50	.75	.70	.46	392	.17	18.28	.75	.66	.47	44	.14
Second Year	18.31	.82	.71	.45	363	.15	18.29	.82	.66	.47	44	.28
Third Year	18.14	.75	.70	.46	340	.23	18.07	.88	.67	.47	42	.17
Fourth Year	18.14	.92	.76	.43	327	.26	17.92	1.01	.73	.44	30	.33
Fifth Year	18.10	.94	.83	.38	295	.34	18.19	.59	.87	.34	30	.08
			OTS						**USNA**			
Precommission	18.38	.78	.48	.50	1,289	.10	18.46	.62	.65	.48	48	.05
First Year	18.21	.75	.49	.50	1,238	.21	18.20	.81	.64	.48	47	.38
Second Year	18.13	.81	.48	.50	1,056	.32	18.13	.62	.67	.47	43	.42
Third Year	18.01	.86	.50	.50	1,001	.34	17.91	.75	.67	.47	45	.47
Fourth Year	18.03	.85	.60	.49	927	.41	18.00	.90	.76	.43	38	.44
Fifth Year	18.16	.81	.83	.38	695	.39	17.96	.68	.81	.39	37	.34
			OTS-AECP						**OCS**			
Precommission	18.42	.77	.90	.30	118	.01	18.35	.59	.80	.40	96	.15
First Year	18.38	.69	.89	.31	121	.08	18.58	.80	.80	.40	91	.22
Second Year	18.34	.68	.93	.26	82	.04	18.49	.71	.82	.38	80	.08
Third Year	18.40	.81	.93	.26	82	.08	18.32	.71	.84	.37	75	.13
Fourth Year	18.45	.66	.92	.27	104	.32	18.59	.62	.90	.31	77	.22
Fifth Year	18.25	.62	.98	.14	95	.16	18.46	.68	.97	.17	70	.31
			AFROTC						**AFROTC-Cat C**			
Precommission	18.53	.73	.58	.49	2,282	.10	18.24	.84	.88	.33	354	.03
First Year	18.37	.79	.56	.50	2,040	.24	18.42	.52	.60	.49	5	.45
Second Year	18.27	.84	.58	.49	1,861	.27	18.10	.66	.71	.45	7	.55
Third Year	18.13	.82	.59	.49	1,972	.34	17.94	1.00	.83	.38	170	.10
Fourth Year	18.11	.84	.62	.48	1,811	.39	17.92	.78	.87	.34	231	.18
Fifth Year	18.17	.82	.89	.31	1,298	.25	17.80	.88	.94	.24	274	.13

Table 5. **Means and Standard Deviations of Experimental Scores: Total Sample**

Experimental Scores	Item	Survey Years					
		Pre	1st	2nd	3rd	4th	5th
Importance Motivators	M	39.31	39.86	39.83	39.88	39.64	39.22
	SD	4.74	4.59	4.62	4.55	4.52	4.61
Importance Dissatisfiers	M	45.71	46.17	46.23	46.43	46.20	45.40
	SD	5.87	5.69	5.66	5.59	5.67	5.58
Possibility Motivators	M	36.23	33.64	32.41	31.42	31.61	32.12
	SD	5.23	5.80	5.85	5.61	5.68	5.46
Possibility Dissatisfiers	M	44.75	42.20	41.38	40.60	40.71	40.79
	SD	5.22	5.03	5.01	4.97	5.01	4.85
Difference Imp-Poss Motivators	M	3.08	6.22	7.42	8.46	8.03	7.09
	SD	5.49	6.11	6.39	6.29	6.39	6.20
Difference Imp-Poss Dissatisfiers	M	.96	3.97	4.85	5.83	5.49	4.61
	SD	6.15	6.56	6.62	6.68	6.80	6.63
Total Motivators	M	75.54	73.49	72.24	71.30	71.25	71.34
	SD	8.33	8.49	8.39	8.06	8.03	7.98
Total Dissatisfiers	M	90.47	88.37	87.61	87.03	86.91	86.19
	SD	9.25	8.50	8.39	8.21	8.27	8.08
Total Score	M	4.03	10.19	12.27	14.30	13.52	11.71
	SD	10.40	11.46	11.75	11.64	11.83	11.49
Negative Score	M	8.16	7.07	6.82	6.97	7.30	7.82
	SD	5.54	4.76	4.64	4.55	4.70	4.84
Negative Frequency	M	5.60	4.79	4.52	4.41	4.59	4.95
	SD	3.01	2.70	2.56	2.44	2.48	2.56
Zero Frequency	M	8.94	7.56	7.12	6.55	6.61	6.75
	SD	3.77	3.43	3.46	3.31	3.36	3.25
Positive Score	M	12.19	17.26	19.09	21.27	20.83	19.52
	SD	7.81	9.38	9.90	10.05	10.20	9.71
Positive Frequency	M	8.46	10.65	11.35	12.04	11.81	11.30
	SD	4.09	4.07	4.06	3.81	3.89	3.73
Positive Freq plus Zero Freq	M	17.40	18.21	18.48	18.59	18.41	18.05
	SD	3.01	2.70	2.56	2.44	2.48	2.56
Positive Freq plus Neg Freq	M	14.06	15.44	15.88	16.45	16.39	16.25
	SD	3.77	3.43	3.46	3.31	3.36	3.25
Total Importance	M	85.02	86.03	86.06	86.31	85.84	84.62
	SD	9.37	9.02	9.05	8.92	8.99	8.98
Total Possibility	M	80.99	75.84	73.79	72.02	72.32	72.92
	SD	9.55	9.97	9.98	9.66	9.78	9.33
Retention Score A	M	40.35	24.41	17.96	11.32	11.95	13.91
	SD	32.41	33.66	33.60	33.17	33.94	32.19
Retention Score B	M	137.38	82.47	60.01	35.70	37.34	43.65
	SD	118.57	121.87	121.27	120.17	123.57	116.49
Retention Score C	M	486.75	289.57	208.61	118.32	123.18	114.39
	SD	447.52	455.62	452.05	449.06	463.42	435.26
Importance-Possibility Score	M	63.95	58.61	56.68	55.02	55.30	55.66
	SD	10.69	10.33	10.11	9.54	9.62	9.29
Number of Cases		4,644	3,978	3,536	3,727	3,545	2,794

Table 6. **Validities of Experimental Scores with Career/Noncareer Status as of December 1969: Total Sample**

Experimental Scores	Survey Years					
	Pre	1st	2nd	3rd	4th	5th
Importance Motivators	.01	−.01	.02	.03	.02	−.01
Importance Dissatisfiers	−.04	−.04	−.05	−.04	−.03	.00
Possibility Motivators	.12	.22	.27	.31	.33	.17
Possibility Dissatisfiers	.07	.16	.20	.23	.25	.17
Difference Imp-Poss Motivators	−.11	−.22	−.23	−.26	−.28	−.16
Difference Imp-Poss Dissatisfiers	−.09	−.16	−.20	−.20	−.20	−.13
Total Motivators	.08	.15	.20	.24	.25	.11
Total Dissatisfiers	.01	.07	.08	.11	.13	.10
Total Score	−.11	−.20	−.24	−.26	−.27	−.16
Negative Score	.04	.01	−.01	−.04	.05	−.10
Negative Frequency	.07	.08	.07	.07	.08	.00
Zero Frequency	.05	.17	.21	.22	.22	.15
Positive Score	−.12	−.25	−.29	−.31	−.33	−.23
Positive Frequency	−.10	−.20	−.23	−.23	−.24	−.13
Positive Freq plus Zero Freq	−.07	−.08	−.07	−.07	−.08	.00
Positive Freq plus Neg Freq	−.05	−.17	−.21	−.22	−.22	−.15
Total Importance	−.02	−.03	−.02	−.01	−.01	−.01
Total Possibility	.10	.21	.26	.30	.32	.19
Retention Score A	.10	.22	.28	.33	.35	.24
Retention Score B	.10	.22	.28	.33	.35	.25
Retention Score C	.09	.21	.27	.32	.34	.25
Importance-Possibility Score	.10	.19	.22	.24	.25	.11
Number of cases	4,644	3,978	3,536	3,727	3,545	2,794

Table 7. **Classification of Items According to Herzberg's Theory**

Classification	Job Importance-Job Possibility Items
Dissatisfier	Adequate job security
Dissatisfier	Work under consistent and intelligent personnel policies
Motivator	Have a say in what happens to you
Motivator	Feel that you are accomplishing something
Dissatisfier	Do a great deal of traveling
Motivator	Become proficient in a specialized type of work
Motivator	Be in a competitive situation
Dissatisfier	Obtain a good salary
Dissatisfier	Have a definite work schedule
Dissatisfier	Settle down in a certain area
Motivator	Be promoted on the basis of ability
Dissatisfier	Spend a lot of time with my family
Motivator	Advance at a fairly rapid rate
Dissatisfier	Be able to retire at an early age
Dissatisfier	Have competent supervisors
Dissatisfier	Make a lot of money
Motivator	Be given recognition for work well done
Motivator	Fly or continue flying
Dissatisfier	Do work which my wife and family can be proud of
Dissatisfier	Have prestige or social status
Dissatisfier	Keep very busy
Motivator	Variety in job activities
Motivator	Achieve leadership in my field

Table 8. **Validities of Experimental Scores with Career/Noncareer Status as of December 1969: AFA**

Experimental Scores	Survey Years					
	Pre	1st	2nd	3rd	4th	5th
Importance Motivators	.01	.02	−.01	.07	.07	.07
Importance Dissatisfiers	−.05	−.03	−.09	.06	−.03	.01
Possibility Motivators	.13	.18	.12	.21	.19	.21
Possibility Dissatisfiers	.06	.02	.03	.09	.18	.13
Difference Imp-Poss Motivators	−.10	−.15	−.10	−.14	−.10	−.11
Difference Imp-Poss Dissatisfiers	−.08	−.05	−.10	−.01	−.14	−.08
Total Motivators	.09	.13	.07	.18	.17	.18
Total Dissatisfiers	−.01	−.01	−.05	.10	.08	.08
Total Score	−.11	−.10	−.11	−.08	−.14	−.11
Negative Score	.04	−.05	.02	−.08	−.04	−.12
Negative Frequency	.08	.01	.04	.01	.03	−.02
Zero Frequency	.06	.15	.09	.07	.10	.12
Positive Score	−.12	−.16	−.13	−.13	−.20	−.21
Positive Frequency	−.11	−.13	−.10	−.07	−.11	−.09
Positive Freq plus Zero Freq	−.08	−.01	−.04	−.01	−.03	.02
Positive Freq plus Neg Freq	−.06	−.15	−.09	−.07	−.10	−.12
Total Importance	−.03	−.01	−.06	.08	.02	.04
Total Possibility	.11	.12	.08	.17	.20	.19
Retention Score A	.13	.14	.11	.20	.25	.24
Retention Score B	.13	.15	.11	.20	.26	.25
Retention Score C	.12	.15	.12	.20	.26	.25
Importance-Possibility Score	.14	.11	.07	.14	.10	.13
Number of Cases	411	392	363	340	327	295

Table 9. Validities of Experimental Scores with Career/Noncareer Status as of December 1969: OTS

Experimental Scores	Survey Years					
	Pre	1st	2nd	3rd	4th	5th
Importance Motivators	−.02	−.04	.03	−.00	−.01	−.08
Importance Dissatisfiers	.00	.01	.00	−.03	−.01	−.01
Possibility Motivators	.13	.15	.24	.27	.34	.26
Possibility Dissatisfiers	.10	.16	.22	.26	.29	.28
Difference Imp-Poss Motivators	−.13	−.17	−.19	−.23	−.31	−.29
Difference Imp-Poss Dissatisfiers	.07	−.12	−.17	−.22	−.22	−.28
Total Motivators	.07	.09	.19	.20	.23	.14
Total Dissatisfiers	.05	.10	.12	.14	.16	.16
Total Score	−.12	−.16	−.20	−.25	−.29	−.28
Negative Score	−.01	−.05	−.11	−.11	−.11	−.12
Negative Frequency	.06	.03	.00	.00	.06	.04
Zero Frequency	.08	.15	.21	.24	.28	.23
Positive Score	−.16	−.21	−.28	−.34	−.39	−.37
Positive Frequency	−.12	−.14	−.19	−.21	−.27	−.23
Positive Freq plus Zero Freq	−.06	−.03	.00	.00	−.06	−.04
Positive Freq plus Neg Freq	−.08	−.15	−.21	−.24	−.28	−.23
Total Importance	−.01	−.01	.01	−.02	−.01	−.04
Total Possibility	.12	.17	.25	.29	.34	.29
Retention Score A	.13	.19	.28	.33	.39	.36
Retention Score B	.13	.19	.28	.33	.39	.36
Retention Score C	.12	.18	.27	.33	.39	.36
Importance-Possibility Score	.12	.14	.20	.21	.26	.28
Number of Cases	1,289	1,238	1,056	1,001	927	695

Table 10. **Validities of Experimental Scores with Career/Noncareer Status as of December 1969: OTS AECP**

Experimental Scores	Survey Years					
	Pre	1st	2nd	3rd	4th	5th
Importance Motivators	.06	.01	.11	−.10	.01	−.05
Importance Dissatisfiers	.07	−.01	.12	−.07	.06	.10
Possibility Motivators	−.06	.05	.08	.13	.30	.15
Possibility Dissatisfiers	−.09	.09	.08	.16	.23	.14
Difference Imp-Poss Motivators	.11	−.04	.01	−.23	−.28	−.16
Difference Imp-Poss Dissatisfiers	.13	−.08	.04	−.20	−.14	−.02
Total Motivators	.00	.05	.12	.03	.21	.08
Total Dissatisfiers	.00	.04	.12	.05	.17	.15
Total Score	.14	−.07	.03	−.23	−.23	−.10
Negative Score	−.13	.05	−.02	.07	.01	.01
Negative Frequency	−.09	.02	−.08	.10	.01	−.01
Zero Frequency	−.03	.02	.01	.05	.10	.02
Positive Score	.09	−.06	.03	−.27	−.28	−.12
Positive Frequency	.11	−.03	.05	−.11	−.09	−.01
Positive Freq plus Zero Freq	.09	−.02	.08	−.10	−.01	.01
Positive Freq plus Neg Freq	.03	−.02	−.01	−.05	−.10	−.02
Total Importance	.07	.00	.13	−.09	.04	.04
Total Possibility	−.08	.07	.08	.16	.28	.16
Retention Score A	−.03	.07	.12	.20	.33	.19
Retention Score B	−.01	.07	.14	.20	.34	.20
Retention Score C	.00	.07	.15	.20	.34	.20
Importance-Possibility Score	−.06	−.01	.04	.08	.07	.03
Number of Cases	118	121	82	82	104	95

Table 11. **Validities of Experimental Scores with Career/Noncareer Status as of December 1969: AFROTC (Cat C Omitted)**

Experimental Scores	Survey Years					
	Pre	1st	2nd	3rd	4th	5th
Importance Motivators	.03	.01	.02	.06	.02	.01
Importance Dissatisfiers	−.02	−.05	−.05	−.05	−.03	.00
Possibility Motivators	.16	.25	.29	.36	.37	.16
Possibility Dissatisfiers	.11	.18	.22	.24	.25	.13
Difference Imp-Poss Motivators	−.13	−.23	−.25	−.28	−.31	−.13
Difference Imp-Poss Dissatisfiers	−.11	−.18	−.21	−.22	−.21	−.09
Total Motivators	.11	.17	.21	.28	.28	.11
Total Dissatisfiers	.05	.07	.10	.11	.13	.07
Total Score	−.13	−.23	−.25	−.28	−.29	−.12
Negative Score	.04	.03	.00	−.03	−.04	−.11
Negative Frequency	.08	.10	.08	.09	.08	−.03
Zero Frequency	.09	.19	.24	.25	.25	.15
Positive Score	−.15	−.27	−.30	−.33	−.35	−.20
Positive Frequency	−.14	−.23	−.25	−.28	−.27	−.10
Positive Freq plus Zero Freq	−.08	−.10	−.08	−.09	−.08	.03
Positive Freq plus Neg Freq	−.09	−.19	−.24	−.25	−.25	−.15
Total Importance	.00	−.03	−.02	.00	−.01	.00
Total Possibility	.14	.23	.27	.33	.34	.16
Retention Score A	.14	.24	.29	.36	.36	.22
Retention Score B	.13	.24	.29	.36	.36	.23
Retention Score C	.13	.23	.28	.35	.35	.23
Importance-Possibility Score	.13	.22	.24	.28	.27	.08
Number of Cases	2,282	2,040	1,861	1,972	1,811	1,298

Table 12. **Validities of Experimental Scores with Career/Noncareer Status as of December 1969: USMA**

Experimental Scores	Survey Years					
	Pre	1st	2nd	3rd	4th	5th
Importance Motivators	.04	.04	.09	.03	.30	−.28
Importance Dissatisfiers	.00	−.11	−.18	.00	.37	.28
Possibility Motivators	.00	.25	.16	.19	−.01	−.04
Possibility Dissatisfiers	.04	.06	.19	.14	.11	−.04
Difference Imp-Poss Motivators	.04	−.31	−.13	−.16	.28	−.21
Difference Imp-Poss Dissatisfiers	−.03	−.14	−.27	−.10	.27	−.19
Total Motivators	.02	.13	.15	.14	.20	−.20
Total Dissatisfiers	.02	−.04	.00	.07	.32	−.19
Total Score	.00	−.24	−.20	−.15	.30	−.22
Negative Score	−.06	−.06	−.10	−.16	−.31	.16
Negative Frequency	−.03	.05	−.03	−.07	−.24	.23
Zero Frequency	.11	.26	.25	.15	−.10	−.01
Positive Score	−.05	−.30	−.33	−.27	.17	−.19
Positive Frequency	−.07	−.25	−.19	−.09	.29	−.14
Positive Freq plus Zero Freq	.03	−.05	.03	.07	.24	−.23
Positive Freq plus Neg Freq	−.11	−.26	−.25	−.15	.10	.01
Total Importance	.02	−.09	−.04	.02	.36	−.32
Total Possibility	.02	.18	.20	.19	.05	−.04
Retention Score A	.00	.21	.27	.29	.07	−.03
Retention Score B	.00	.22	.29	.29	.05	−.06
Retention Score C	.00	.21	.30	.28	.04	−.09
Importance-Possibility Score	−.07	.22	.17	.10	−.02	.12
Number of Cases	46	44	44	42	30	30

Table 13. **Validities of Experimental Scores with Career/Noncareer Status as of December 1969: USNA**

Experimental Scores	Survey Years					
	Pre	1st	2nd	3rd	4th	5th
Importance Motivators	−.28	−.04	.09	−.02	.14	−.07
Importance Dissatisfiers	.00	−.08	−.06	.01	.22	−.13
Possibility Motivators	.06	.34	.27	.22	−.50	.52
Possibility Dissatisfiers	−.02	.20	.19	.17	.18	.38
Difference Imp-Poss Motivators	−.26	−.35	−.15	−.18	−.24	−.40
Difference Imp-Poss Dissatisfiers	.01	−.22	−.17	−.09	.11	−.33
Total Motivators	−.13	.24	.24	.14	.39	.32
Total Dissatisfiers	−.01	.06	.08	.10	.26	.14
Total Score	−.13	−.32	−.18	−.15	−.09	−.40
Negative Score	.13	−.07	−.23	−.17	−.28	.21
Negative Frequency	.14	−.10	−.06	−.01	−.19	.30
Zero Frequency	−.11	.47	.39	.26	.25	.16
Positive Score	−.08	−.37	−.32	−.26	−.26	−.40
Positive Frequency	−.01	−.38	−.29	−.17	−.06	−.30
Positive Freq plus Zero Freq	−.14	.10	.06	.01	.19	−.30
Positive Freq plus Neg Freq	.11	−.47	−.39	−.26	−.25	−.16
Total Importance	−.13	−.08	.01	.00	.20	−.12
Total Possibility	.02	.30	.26	.23	.40	.50
Retention Score A	−.01	.32	.37	.33	.40	.50
Retention Score B	−.02	.32	.38	.35	.41	.49
Retention Score C	−.03	.32	.38	.36	.42	.49
Importance-Possibility Score	−.02	.30	.24	.34	.33	.32
Number of Cases	48	47	43	45	38	37

Table 14. **Validities of Experimental Scores with Career/Noncareer Status as of December 1969: OCS**

Experimental Scores	Survey Years					
	Pre	1st	2nd	3rd	4th	5th
Importance Motivators	.00	.06	.04	−.07	−.01	.21
Importance Dissatisfiers	.05	.19	.10	.21	−.05	.14
Possibility Motivators	.03	.20	.05	.17	.30	.21
Possibility Dissatisfiers	.03	.13	.13	.27	.17	.20
Difference Imp-Poss Motivators	−.02	−.16	−.01	−.20	−.31	−.04
Difference Imp-Poss Dissatisfiers	.02	.10	.00	−.05	−.16	−.04
Total Motivators	.02	.16	.05	.07	.19	.24
Total Dissatisfiers	.05	.20	.14	.31	.08	.21
Total Score	.00	−.02	.00	−.13	−.24	−.05
Negative Score	−.14	−.10	−.06	.08	.11	−.01
Negative Frequency	−.04	−.09	−.05	.08	.08	.11
Zero Frequency	.03	.20	.05	.04	.13	.04
Positive Score	−.08	−.11	−.04	−.13	−.25	−.06
Positive Frequency	.00	−.08	.00	−.09	−.16	−.11
Positive Freq plus Zero Freq	.04	.09	.05	−.08	−.08	−.11
Positive Freq plus Neg Freq	−.03	−.20	−.05	−.04	−.13	−.04
Total Importance	.03	.15	.08	.10	−.03	.20
Total Possibility	.03	.19	.10	.24	.26	.23
Retention Score A	.09	.20	.12	.18	.27	.22
Retention Score B	.09	.19	.13	.17	.28	.20
Retention Score C	.08	.18	.13	.16	.28	.19
Importance-Possibility Score	.11	.19	.07	.27	.23	.24
Number of Cases	96	91	80	75	77	70

Table 15. **Validities of Experimental Scores with Career/Noncareer Status as of December 1969: AFROTC-Cat C**

Experimental Scores	Survey Years					
	Pre	1st	2nd	3rd	4th	5th
Importance Motivators	.03	.00	.33	.06	.18	.09
Importance Dissatisfiers	.00	−.14	−.12	.01	.00	.09
Possibility Motivators	.06	.67	.71	.09	.16	.00
Possibility Dissatisfiers	.03	.50	.62	.04	.11	.02
Difference Imp-Poss Motivators	−.03	−.86	−.49	−.05	−.05	.05
Difference Imp-Poss Dissatisfiers	−.03	−.50	−.48	−.03	−.09	.06
Total Motivators	.05	.40	.75	.10	.21	.05
Total Dissatisfiers	.02	.29	.33	.03	.06	.07
Total Score	−.03	−.69	−.62	−.05	−.08	.06
Negative Score	.01	.23	.28	−.06	−.05	−.16
Negative Frequency	.02	.53	.51	−.07	−.01	−.08
Zero Frequency	.03	.75	.58	.05	.11	.01
Positive Score	−.04	−.77	−.70	−.07	−.12	.00
Positive Frequency	−.04	−.76	−.59	−.01	−.10	.04
Positive Freq plus Zero Freq	−.02	−.53	−.51	.07	.01	.08
Positive Freq plus Neg Freq	−.03	−.75	−.58	−.05	−.11	−.01
Total Importance	.01	−.07	.06	.03	.08	.10
Total Possibility	.05	.60	.74	.08	.15	.01
Retention Score A	.04	.63	.75	.09	.17	.05
Retention Score B	.04	.63	.71	.10	.17	.05
Retention Score C	.03	.63	.67	.10	.17	.05
Importance-Possibility Score	.04	.72	.69	.04	.14	−.01
Number of Cases	354	5	7	170	231	274

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13. ABSTRACT

During 1963 a long-term study of officer input, from the principal Air Force commissioning sources, was initiated. This study was designed to determine the predictability of an officer's career decision and to evaluate relationships between career intent, various demographic, environmental and attitudinal factors, and career status. This report presents the development and validation of various scores designed to predict career status.

Survey data were collected from individuals before they entered active duty, and annually, through five years of active military service. The scores designed to predict career status were determined from each individual's yearly survey responses. Generally, the relationship between career status and the scores based on responses prior to commissioning were quite low; however, there was a definite increase in prediction after the subjects experienced active duty. The largest increase in predictability occurred during the first two years of active duty. This seems to indicate a plateau in the subject's attitude toward the military career. Offer of Air Force opportunities such as education, training, and Regular commissions might be more effective at this point, than at the time of commissioning. In addition, from an economical standpoint, the Air Force might realize considerable savings in training costs by sending those junior officers most likely to remain on active duty to the more expensive educational and training programs. The Career Intent Score was the measurement device most predictive of future career status although correlations were only moderate.

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